

Title (en)

USE OF CURABLE RESIN COMPOSITION FOR HARD COAT, CURED PRODUCT, AND LAMINATE

Title (de)

VERWENDUNG EINER HÄRTBAREN HARZZUSAMMENSETZUNG FÜR HARTE BESCHICHTUNG, GEHÄRTETES PRODUKT UND LAMINAT

Title (fr)

UTILISATION D'UNE COMPOSITION DE RESINE DURCISSABLE POUR REVETEMENT DUR, PRODUIT DURCI ET STRATIFIÉ

Publication

**EP 3255072 B1 20200429 (EN)**

Application

**EP 16746649 A 20160203**

Priority

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- JP 2016053173 W 20160203

Abstract (en)

[origin: EP3255072A1] When achieving high hardness by forming a hardcoat layer comprising only organic matter, cure shrinkage increases, a film on which the hardcoat layer is formed curls, and in extreme cases, the hardcoat layer is prone to cracking; on the other hand, when attempting to suppress cure shrinkage, it is difficult for sufficient high hardness to be exhibited. Furthermore, organic/inorganic hybrid curable resin compositions use inorganic matter such as silica in order to increase hardness. However, this leads to the problem of the inherent properties of the resin, such as workability, being lost. The abovementioned problems have been solved by a curable resin composition containing: a urethane (meth)acrylate (A), which is a reactant comprising norbornene diisocyanate (a1) and a compound (a2) having one hydroxyl group and one or more (meth)acryloyl groups in a molecule; and a (meth)acrylate monomer (B), which is a reactant comprising a polyol (b1) having a condensed polycyclic structure, and (meth)acrylic acid (b2).

IPC 8 full level

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CPC (source: EP US)

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